



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,800

DATE: 05/08/2002

TIME: 11:06:02

Input Set : N:\paola\US09913800.raw

Output Set: N:\CRF3\05082002\I913800.raw

1 <110> APPLICANT: Brett P. Monia
 2 Lex M. Cowser
 3 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF AKT-2 EXPRESSION
 4 <130> FILE REFERENCE: RTSP-0155
 5 <140> CURRENT APPLICATION NUMBER: US/09/913,800
 6 <141> CURRENT FILING DATE: 2001-08-16
 7 <150> PRIOR APPLICATION NUMBER: 09/256,465
 8 <151> PRIOR FILING DATE: 1999-02-23
 9 <160> NUMBER OF SEQ ID NOS: 47

11 <210> SEQ ID NO: 1
 12 <211> LENGTH: 1599
 13 <212> TYPE: DNA
 14 <213> ORGANISM: Homo sapiens
 15 <220> FEATURE:
 16 <221> NAME/KEY: CDS
 17 <222> LOCATION: (88)..(1533)
 18 <400> SEQUENCE: 1

ENTERED

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20      taggtgacag cgtaccaagc tgccacc atg aat gag gtg tct gtc atc aaa      111
21                                     Met Asn Glu Val Ser Val Ile Lys
22                                     1           5
23      gaa ggc tgg ctc cac aag cgt ggt gaa tac atc aag acc tgg agg cca      159
24      Glu Gly Trp Leu His Lys Arg Gly Glu Tyr Ile Lys Thr Trp Arg Pro
25          10           15           20
26      cgg tac ttc ctg ctg aag agc gac ggc tcc ttc att ggg tac aag gag      207
27      Arg Tyr Phe Leu Leu Lys Ser Asp Gly Ser Phe Ile Gly Tyr Lys Glu
28          25           30           35           40
29      agg ccc gag gcc cct gat cag act cta ccc ccc tta aac aac ttc tcc      255
30      Arg Pro Glu Ala Pro Asp Gln Thr Leu Pro Pro Leu Asn Asn Phe Ser
31          45           50           55
32      gta gca gaa tgc cag ctgatg aag acc gag agg ccg cga ccc aac acc      303
33      Val Ala Glu Cys Gln Leu Met Lys Thr Glu Arg Pro Arg Pro Asn Thr
34          60           65           70
35      ttt gtc ata cgc tgc ctg cag tgg acc aca gtc atc gag agg acc ttc      351
36      Phe Val Ile Arg Cys Leu Gln Trp Thr Thr Val Ile Glu Arg Thr Phe
37          75           80           85
38      cac gtg gat tct cca gac gag agg gag gag tgg atg cgg gcc atc cag      399
39      His Val Asp Ser Pro Asp Glu Arg Glu Glu Trp Met Arg Ala Ile Gln
40          90           95           100
41      atg gtc gcc aac agc ctc aag cag cgg gcc cca ggc gag gac ccc atg      447
42      Met Val Ala Asn Ser Leu Lys Gln Arg Ala Pro Gly Glu Asp Pro Met
43      105           110           115           120
44      gac tac aag tgt ggc tcc ccc agt gac tcc tcc acg act gag gag atg      495

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45	Asp	Tyr	Lys	Cys	Gly	Ser	Pro	Ser	Asp	Ser	Ser	Thr	Thr	Glu	Glu	Met	
46					125					130					135		
47	gaa	gtg	gcg	gtc	agc	aag	gca	cgg	gct	aaa	gtg	acc	atg	aat	gac	ttc	543
48	Glu	Val	Ala	Val	Ser	Lys	Ala	Arg	Ala	Lys	Val	Thr	Met	Asn	Asp	Phe	
49				140				145						150			
50	gac	tat	ctc	aaa	ctc	ctt	ggc	aag	gga	acc	ttt	ggc	aaa	gtc	atc	ctg	591
51	Asp	Tyr	Leu	Lys	Leu	Leu	Gly	Lys	Gly	Thr	Phe	Gly	Lys	Val	Ile	Leu	
52			155				160					165					
53	gtg	cgg	gag	aag	gcc	act	ggc	cgc	tac	tac	gcc	atg	aag	atc	ctg	cga	639
54	Val	Arg	Glu	Lys	Ala	Thr	Gly	Arg	Tyr	Tyr	Ala	Met	Lys	Ile	Leu	Arg	
55		170					175					180					
56	aag	gaa	gtc	atc	att	gcc	aag	gat	gaa	gtc	gct	cac	aca	gtc	acc	gag	687
57	Lys	Glu	Val	Ile	Ile	Ala	Lys	Asp	Glu	Val	Ala	His	Thr	Val	Thr	Glu	
58	185					190						195				200	
59	agc	cgg	gtc	ctc	cag	aac	acc	agg	cac	ccg	ttc	ctc	act	gcg	ctg	aag	735
60	Ser	Arg	Val	Leu	Gln	Asn	Thr	Arg	His	Pro	Phe	Leu	Thr	Ala	Leu	Lys	
61				205						210					215		
62	tat	gcc	ttc	cag	acc	cac	gac	cgc	ctg	tgc	ttt	gtg	atg	gag	tat	gcc	783
63	Tyr	Ala	Phe	Gln	Thr	His	Asp	Arg	Leu	Cys	Phe	Val	Met	Glu	Tyr	Ala	
64				220						225				230			
65	aac	ggg	ggt	gag	ctg	ttc	ttc	cac	ctg	tcc	cgg	gag	cgt	gtc	ttc	aca	831
66	Asn	Gly	Gly	Glu	Leu	Phe	Phe	His	Leu	Ser	Arg	Glu	Arg	Val	Phe	Thr	
67			235					240					245				
68	gag	gag	cgg	gcc	cgg	ttt	tat	ggt	gca	gag	att	gtc	tcg	gct	ctt	gag	879
69	Glu	Glu	Arg	Ala	Arg	Phe	Tyr	Gly	Ala	Glu	Ile	Val	Ser	Ala	Leu	Glu	
70		250					255					260					
71	tac	ttg	cac	tcg	cgg	gac	gtg	gta	tac	cgc	gac	atc	aag	ctg	gaa	aac	927
72	Tyr	Leu	His	Ser	Arg	Asp	Val	Val	Tyr	Arg	Asp	Ile	Lys	Leu	Glu	Asn	
73	265					270						275				280	
74	ctc	atg	ctg	gac	aaa	gat	ggc	cac	atc	aag	atc	act	gac	ttt	ggc	ctc	975
75	Leu	Met	Leu	Asp	Lys	Asp	Gly	His	Ile	Lys	Ile	Thr	Asp	Phe	Gly	Leu	
76				285								290				295	
77	tgc	aaa	gag	ggc	atc	agt	gac	ggg	gcc	acc	atg	aaa	acc	ttc	tgt	ggg	1023
78	Cys	Lys	Glu	Gly	Ile	Ser	Asp	Gly	Ala	Thr	Met	Lys	Thr	Phe	Cys	Gly	
79			300						305					310			
80	acc	ccg	gag	tac	ctg	gcg	cct	gag	gtg	ctg	gag	gac	aat	gac	tat	ggc	1071
81	Thr	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Val	Leu	Glu	Asp	Asn	Asp	Tyr	Gly	
82			315						320					325			
83	cgg	gcc	gtg	gac	tgg	tgg	ggg	ctg	ggt	gtg	gtc	atg	tac	gag	atg	atg	1119
84	Arg	Ala	Val	Asp	Trp	Trp	Gly	Leu	Gly	Val	Val	Met	Tyr	Glu	Met	Met	
85		330						335					340				
86	tgc	ggc	cgc	ctg	ccc	ttc	tac	aac	cag	gac	cac	gag	cgc	ctc	ttc	gag	1167
87	Cys	Gly	Arg	Leu	Pro	Phe	Tyr	Asn	Gln	Asp	His	Glu	Arg	Leu	Phe	Glu	
88	345					350						355				360	
89	ctc	atc	ctc	atg	gaa	gag	atc	cgc	ttc	ccg	cgc	acg	ctc	agc	ccc	gag	1215
90	Leu	Ile	Leu	Met	Glu	Glu	Ile	Arg	Phe	Pro	Arg	Thr	Leu	Ser	Pro	Glu	
91				365						370					375		
92	gcc	aag	tcc	ctg	ctt	gct	ggg	ctg	ctt	aag	aag	gac	ccc	aag	cag	agg	1263
93	Ala	Lys	Ser	Leu	Leu	Ala	Gly	Leu	Leu	Lys	Lys	Asp	Pro	Lys	Gln	Arg	

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94          380          385          390
95   ctt ggt ggg ggg ccc agc gat gcc aag gag gtc atg gag cac agg ttc      1311
96   Leu Gly Gly Gly Pro Ser Asp Ala Lys Glu Val Met Glu His Arg Phe
97          395          400          405
98   ttc ctc agc atc aac tgg cag gac gtg gtc cag aag aag ctc ctg cca      1359
99   Phe Leu Ser Ile Asn Trp Gln Asp Val Val Gln Lys Lys Leu Leu Pro
100         410          415          420
101   ccc ttc aaa cct cag gtc acg tcc gag gtc gac aca agg tac ttc gat      1407
102   Pro Phe Lys Pro Gln Val Thr Ser Glu Val Asp Thr Arg Tyr Phe Asp
103         425          430          435          440
104   gat gaa ttt acc gcc cag tcc atc aca atc aca ccc cct gac cgc tat      1455
105   Asp Glu Phe Thr Ala Gln Ser Ile Thr Ile Thr Pro Pro Asp Arg Tyr
106          445          450          455
107   gac agc ctg ggc tta ctg gag ctg gac cag cgg acc cac ttc ccc cag      1503
108   Asp Ser Leu Gly Leu Leu Glu Leu Asp Gln Arg Thr His Phe Pro Gln
109          460          465          470
110   ttc tcc tac tcg gcc agc atc cgc gag tga gcagtctgcc cacgcagagg      1553
111   Phe Ser Tyr Ser Ala Ser Ile Arg Glu
112         475          480
113   acgcacgctc gctgccatca ccgctgggtg gttttttacc cctgcc      1599
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116 <211> LENGTH: 20
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: PCR Primer
121 <400> SEQUENCE: 2
122   agcagaatgc cagctgatga      20
124 <210> SEQ ID NO: 3
125 <211> LENGTH: 20
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: PCR Primer
130 <400> SEQUENCE: 3
131   gcaggcagcg tatgacaaag      20
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134 <211> LENGTH: 20
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: PCR Probe
139 <400> SEQUENCE: 4
140   accgagaggc cgcgacccaa      20
142 <210> SEQ ID NO: 5
143 <211> LENGTH: 19
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:

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147 <223> OTHER INFORMATION: PCR Primer
148 <400> SEQUENCE: 5
149 gaagggtgaag gtcggagtc 19
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152 <211> LENGTH: 20
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: PCR Primer
157 <400> SEQUENCE: 6
158 gaagatggtg atgggatttc 20
160 <210> SEQ ID NO: 7
161 <211> LENGTH: 20
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: PCR Probe
166 <400> SEQUENCE: 7
167 caagcttccc gttctcagcc 20
169 <210> SEQ ID NO: 8
170 <211> LENGTH: 18
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
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175 <400> SEQUENCE: 8
176 tggacagggc acagtctc 18
178 <210> SEQ ID NO: 9
179 <211> LENGTH: 18
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
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184 <400> SEQUENCE: 9
185 gaggcaccgt ggacaggg 18
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188 <211> LENGTH: 18
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
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193 <400> SEQUENCE: 10
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197 <211> LENGTH: 18
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Antisense Oligonucleotide

Input Set : N:\paola\US09913800.raw

Output Set: N:\CRF3\05082002\I913800.raw

202 <400> SEQUENCE: 11
203 ctttgatgac agacacct 18
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 18
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Antisense Oligonucleotide
211 <400> SEQUENCE: 12
212 ccagccttct ttgatgac 18
214 <210> SEQ ID NO: 13
215 <211> LENGTH: 18
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Antisense Oligonucleotide
220 <400> SEQUENCE: 13
221 tgtggagcca gccttctt 18
223 <210> SEQ ID NO: 14
224 <211> LENGTH: 18
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Antisense Oligonucleotide
229 <400> SEQUENCE: 14
230 gatgtattca ccacgctt 18
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 18
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
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239 gtcttgatgt attcacca 18
241 <210> SEQ ID NO: 16
242 <211> LENGTH: 18
243 <212> TYPE: DNA
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250 <210> SEQ ID NO: 17
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252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
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255 <223> OTHER INFORMATION: Antisense Oligonucleotide
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Input Set : N:\paola\US09913800.raw
Output Set: N:\CRF3\05082002\I913800.raw

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The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:1; Line(s) 77,80,83,86,89,92,95,98,101,104,107,110,113
Seq#:2; Line(s) 122
Seq#:3; Line(s) 131
Seq#:4; Line(s) 140
Seq#:5; Line(s) 149
Seq#:6; Line(s) 158
Seq#:7; Line(s) 167
Seq#:8; Line(s) 176
Seq#:9; Line(s) 185
Seq#:10; Line(s) 194
Seq#:11; Line(s) 203
Seq#:12; Line(s) 212
Seq#:13; Line(s) 221
Seq#:14; Line(s) 230
Seq#:15; Line(s) 239
Seq#:16; Line(s) 248
Seq#:17; Line(s) 257
Seq#:18; Line(s) 266
Seq#:19; Line(s) 275
Seq#:20; Line(s) 284
Seq#:21; Line(s) 293
Seq#:22; Line(s) 302
Seq#:23; Line(s) 311
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Seq#:30; Line(s) 374
Seq#:31; Line(s) 383
Seq#:32; Line(s) 392
Seq#:33; Line(s) 401
Seq#:34; Line(s) 410
Seq#:35; Line(s) 419
Seq#:36; Line(s) 428
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Seq#:38; Line(s) 446
Seq#:39; Line(s) 455
Seq#:40; Line(s) 464
Seq#:41; Line(s) 473
Seq#:42; Line(s) 482

RAW SEQUENCE LISTING ERROR SUMMARY

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Input Set : N:\paola\US09913800.raw

Output Set: N:\CRF3\05082002\I913800.raw

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Seq#:45; Line(s) 509
Seq#:46; Line(s) 518
Seq#:47; Line(s) 527

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